



DoD Installations & Environment Geospatial Information Resources

The Defense Installation Spatial Data Infrastructure

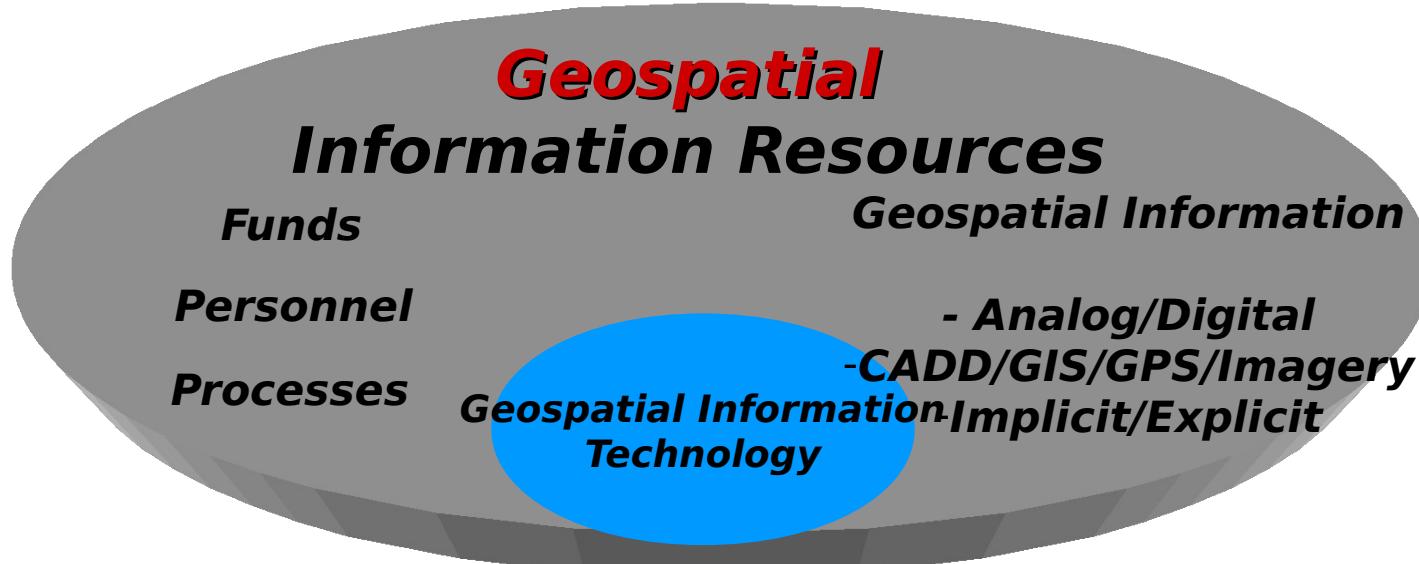
Colonel Brian Cullis, USAF
Chair, DoD IVT Working Group for BRAC 2005
Chief, USAF GeoBase Program Office



Geospatial IT Terms

Geospatial Information Technology:
Computers, ancillary equipment, software, firmware and similar procedures, services (including support services), and related resources.

Geospatial Information Resources:
Geospatial information itself and related resources, such as personnel, hardware, software, funds, and technology.





Example of Geospatial IT For the Service Enterprise

Vision:

One installation... one map

Mission:

Attain and sustain a breakthrough capability enabling shared, efficient use of trusted integrated geo-referenced information delivering situational awareness across installations

For More Information Visit
www.geobase.hq.af.mil





Origins of Installation Visualization Tool

In FY01, DUSD/I&E sought to visualize all DoD installations via a common GIS known as the Installation Visualization Tool

Services asked that IVT incorporate existing I&E GIS investments that have used a common data standard

USAF GeoBase approach seen as low-risk, feasible strategy capable of blending all service GIS efforts

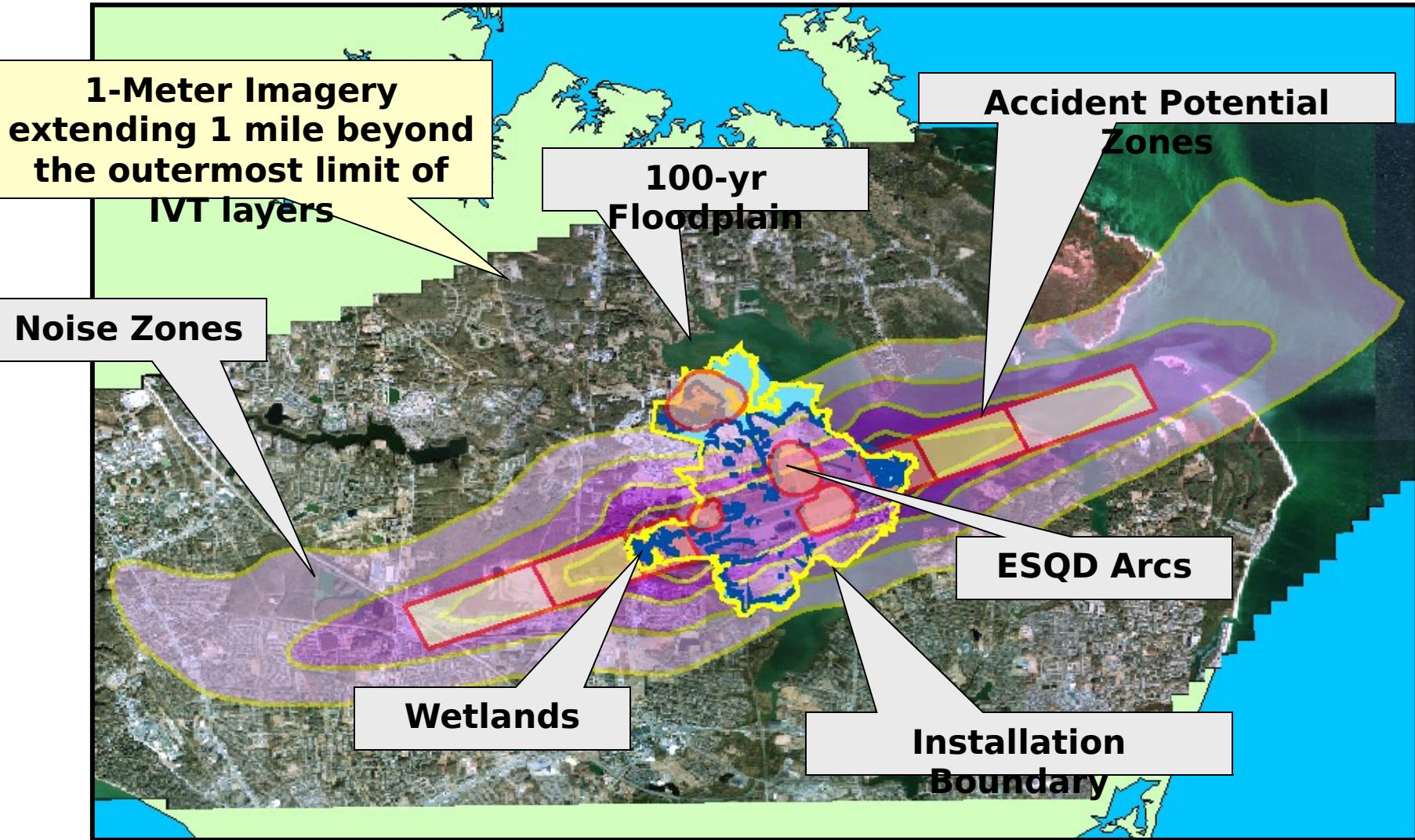
Apr 03, DoD tapped the USAF to lead IVT by broadening their GeoBase protocol to include sister service I&E GIS programs with the following objectives:

- ▶ **Deliver situational awareness for BRAC '05 deliberations by May 04**
- ▶ **Supplement rigorous analyses with capability to visualize realignment potential**
- ▶ **Visualize select certified geo-data of DoD installations and ranges**



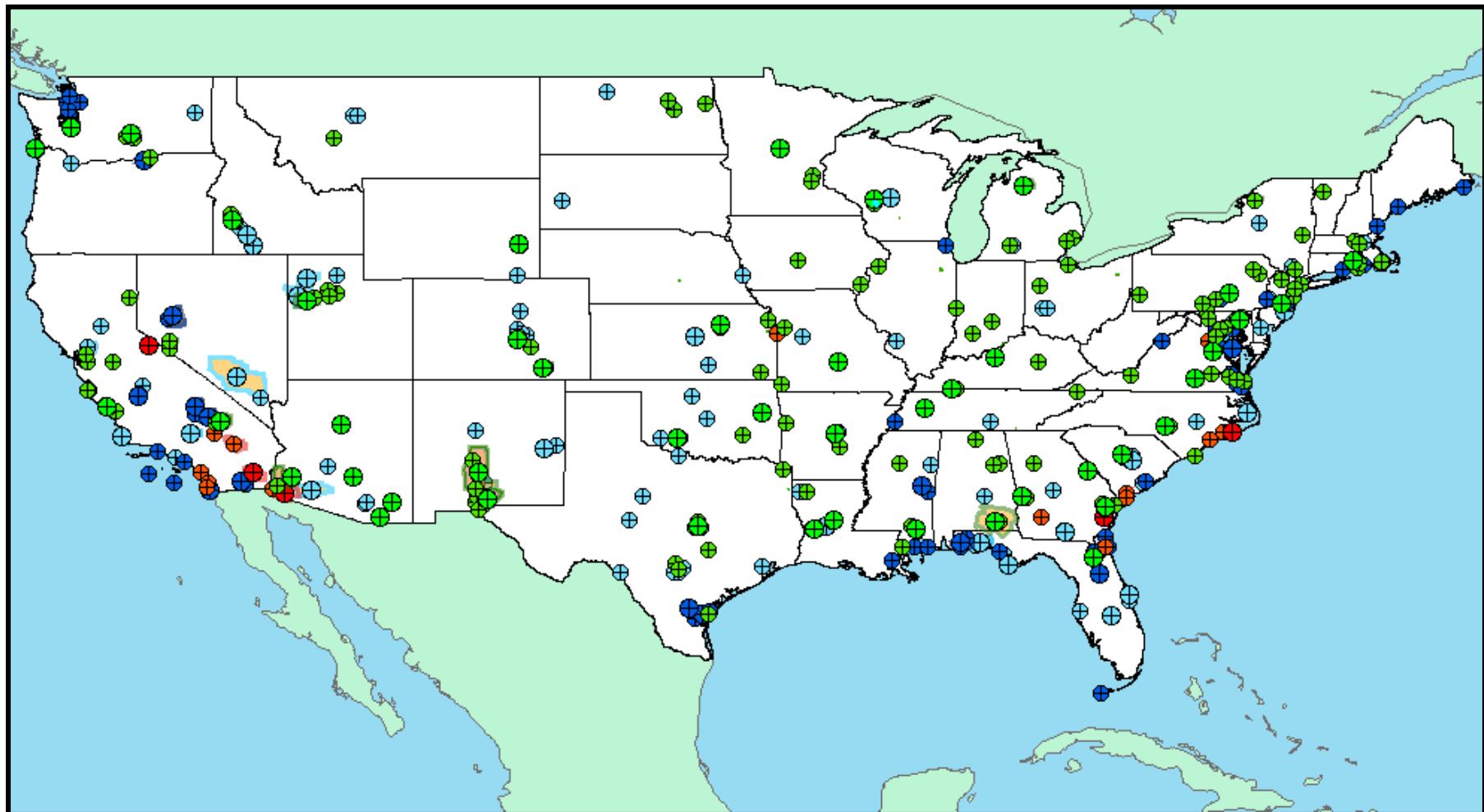


IVT Example



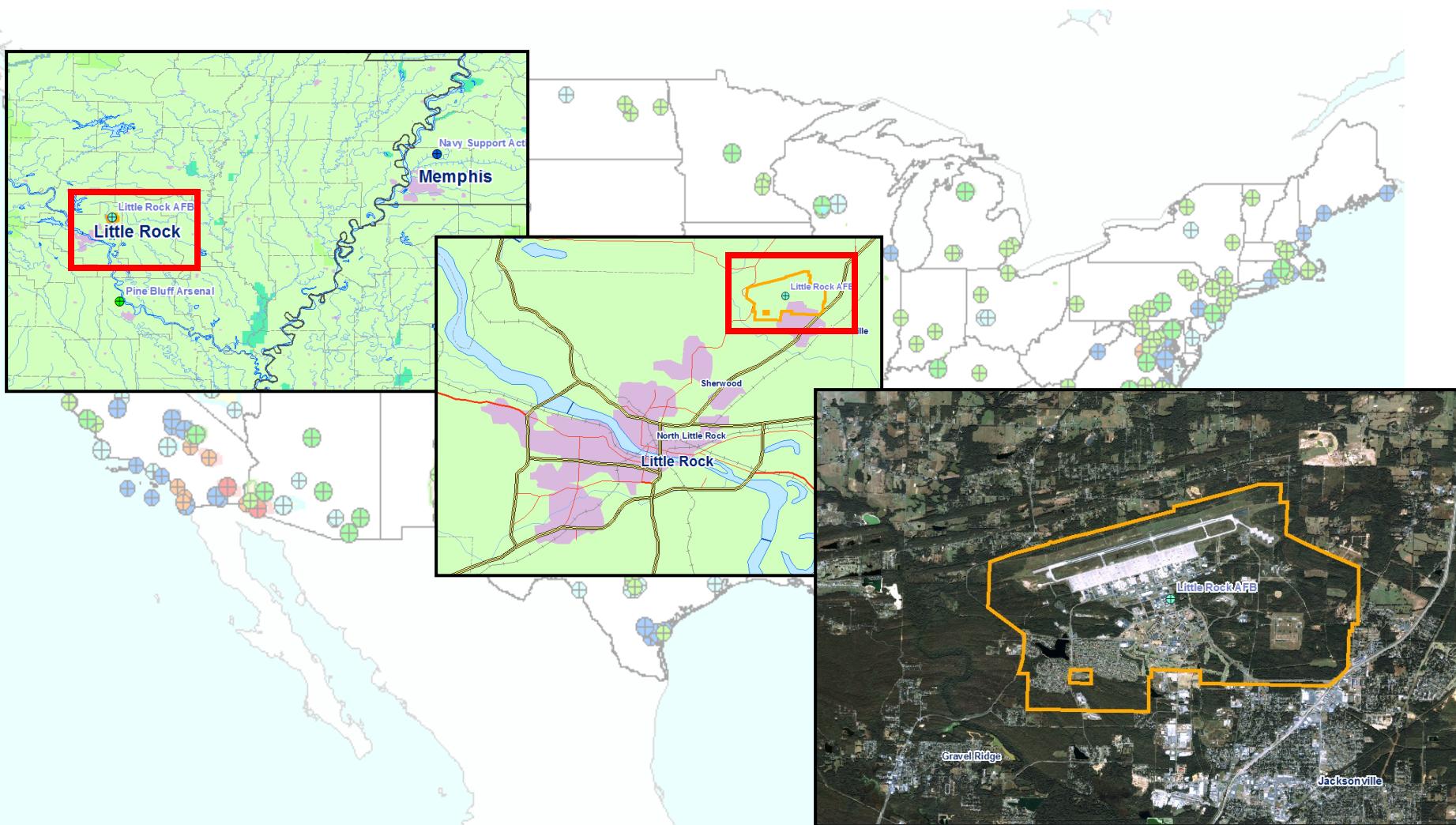


IVT Scope





IVT Deliverable





A Standards-Based Framework



BRAC 2005 Visualization Requirements

Imagery
Installation/Range Boundaries
Q-D Arcs
Wetlands
Floodplains
AICUZ (CZ/APZ)
Noise Contours



Federal Geospatial Metadata Standards

Spatial Data Standards for Facilities, Infrastructure and Environment

Auditory
Buildings
Cadastre
Climate
Common
Communications

Boundary
Cultural
Demographics
Environmental Hazards

Ecology
Fauna
Flora
Land Status

Transportation
Utilities
Visual
Olfactory Improvements
Geology
Landform

Future Projects

Geodesy

Hydrography

Defense Installation Imagery Library

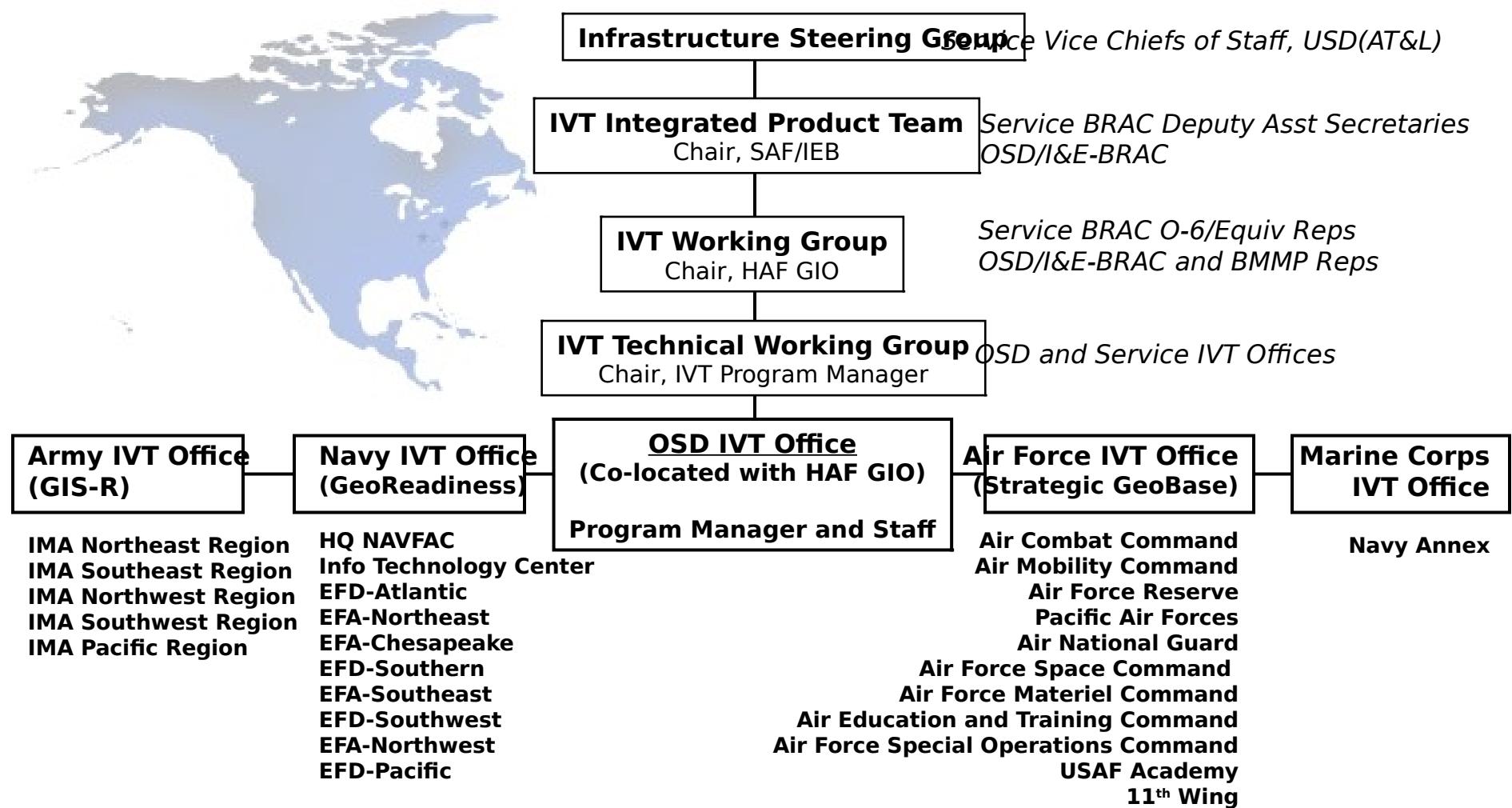
US Navy/Marines



US Army



A Federated Framework





Beyond IVT

Demonstrated benefits of IVT warrant expansion beyond BRAC criteria

Enlarge geographic scope to worldwide population of defense installations
Enlarge mapping scope beyond original eight features portrayed for BRAC
Enlarge analytical scope beyond simple visualization

Service BRAC DASs seek to transfer enlarged oversight to new authority

July 04 is preferred target date to transfer governance authority from BRAC

Business transformation efforts include I&E geospatial information resources

Executive orders direct agency-wide sharing of geospatial information
Defense policies legislate acquiring data once, then sustain and share
All services have large investments in spatial datastores for I&E mission



I&E DGB Directions

- ▶ Mar 04 -The I&E BMMP Domain Governance Board (I&E DGB) agreed:
 - **to have I&E assume responsibility for the Installation Visualization Tool (IVT)**
 - **to broaden IVT under a Defense Installation Spatial Data Infrastructure concept**
- ▶ I&E DGB recommended that the DISDI strategy should:
 - **be relevant to both the business *and* warfighter domains**
 - **yield one, standards-based, integrated capability rather than different systems**
 - **leverage existing capabilities present at the National Geospatial-Intelligence Agency and the Tri-Service CADD/GIS Technology Center, whenever possible**
- ▶ I&E DGB tasked DUSD/I&E(BT):
 - **to draft a transition plan to affect IVT oversight from BRAC to the I&E DGB**
 - **to develop an analysis of alternatives in selecting an optimal DISDI technology solution**



What is DISDI?

- ▶ The Defense Installation Spatial Data Infrastructure may be defined as:

“ The **people, policies, and information resources** necessary to optimize acquiring, managing, and sustaining installations and environmental geospatial imagery and data throughout the defense sector according to DoD business transformation guidelines.”

DRAFT

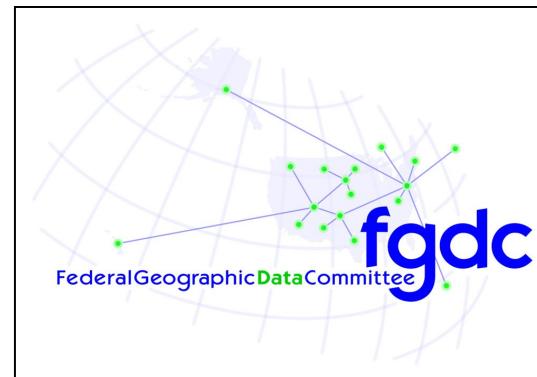


I&E DGB Directions

- ▶ DUSD/I&E(BT) will
 - **Staff a DISDI Office effective Jul 04**
 - **Recommend to USD(C) and USD(AT&L) that I&E be responsible for enterprise coordination of geospatial information capabilities for DoD installations**
 - **Include DISDI investment within I&E DGB oversight**
 - **Build a programming strategy to sustain DISDI beyond 06**
 - **Direct the DISDI Office to define an optimal DISDI architecture to satisfy I&E, DoD, and national needs**

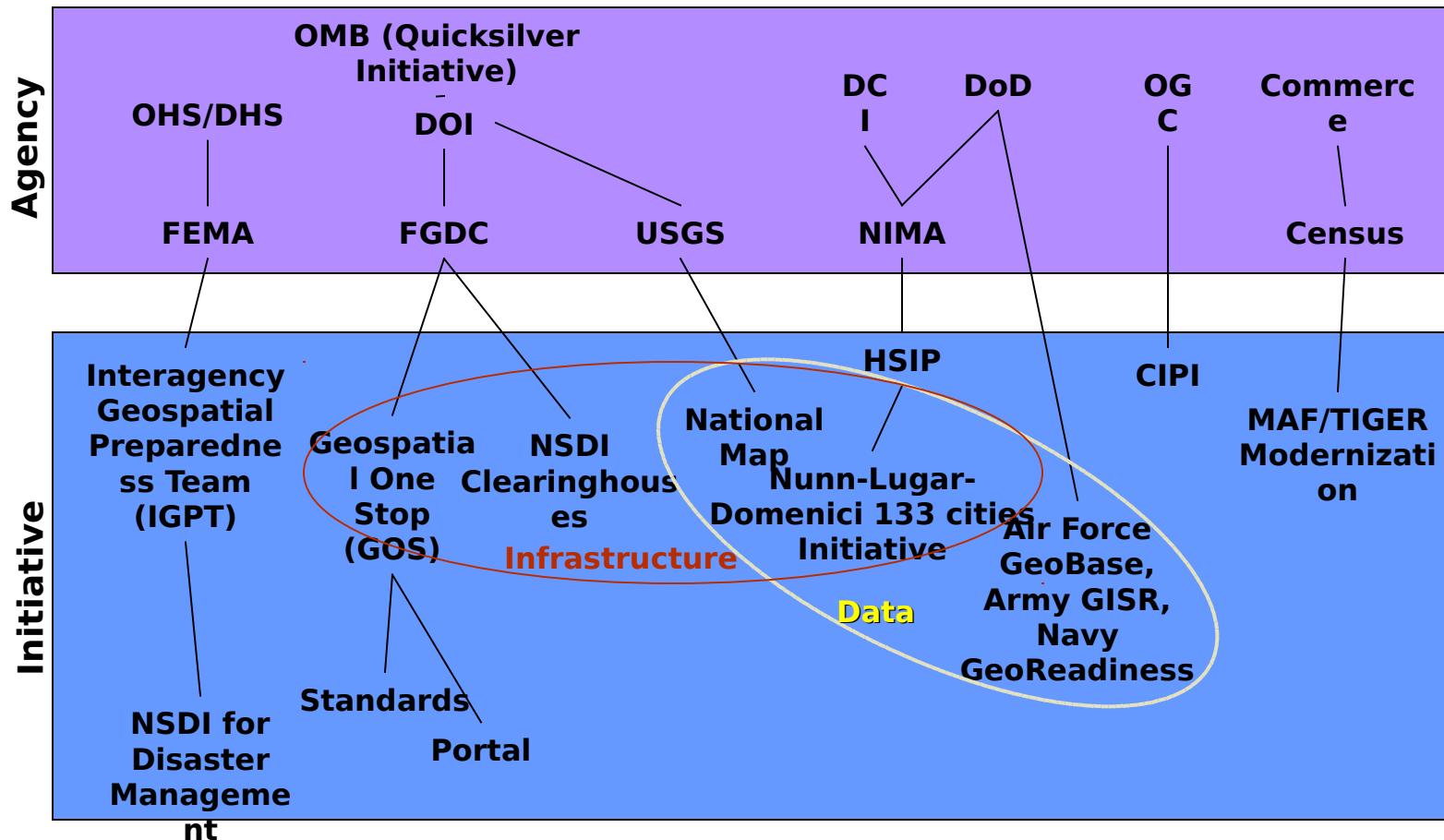


Interested DISDI Partners





Federal Initiatives





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